

**Millipore  
Sigma**

# Assurance<sup>®</sup> GDS System

Advanced Genetic Detection  
for Food Pathogens



Rotor-Gene Q

The life science business  
of Merck KGaA, Darmstadt,  
Germany operates as  
MilliporeSigma in the  
U.S. and Canada.

**Millipore<sup>®</sup>**

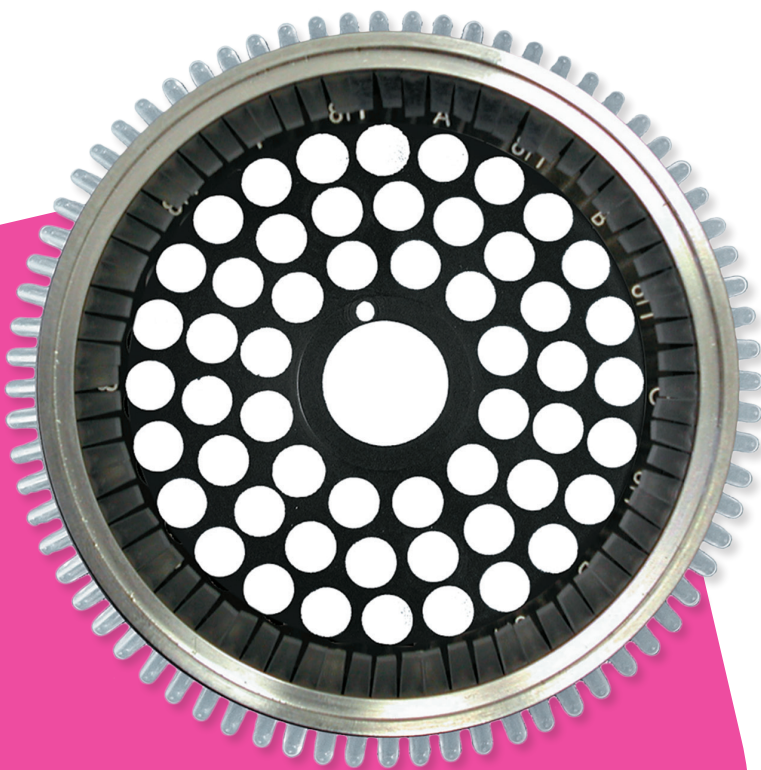
Preparation, Separation,  
Filtration & Monitoring Products

# The Assurance® GDS system will change the way you think about pathogen detection

The world is changing. The need for speed and accuracy has intensified. Maintaining the status quo means falling behind. Fortunately the world of science is changing as well.

## Introducing the Assurance® GDS (Genetic Detection System),

an integrated solution for pathogen detection that is unparalleled in the industry. Based on the latest advancements in molecular technology and food microbiology, Assurance® GDS offers faster results and increased accuracy to meet today's food and environmental testing challenges. Designed for performance and practicality, Assurance® GDS offers a solution for pathogen detection that raises industry standards to an unprecedented level.



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## The system consists of:

### Innovative Sample Preparation

- GDS uses proprietary magnetic particles to capture the target organism from the enriched sample.
- The innovative GDS PickPen® concentration device quickly and easily collects and transfers the concentrated target – 8 samples at a time.
- The sample preparation procedure is practical, efficient and simple to run.

### Patented Probes and Primers

- Utilizes highly conserved target gene sequences.
- Ensures greater specificity with fewer indeterminate or false positive reactions.

### Multiplex DNA Amplification

- Multiplex platform allows for the simultaneous detection of multiple targets within each amplification tube.
- Patented rotary format allows for faster cycling.

As a worldwide leader in food testing, MilliporeSigma has translated the need for faster, more accurate DNA-derived results into a revolutionary testing system.

## The Assurance® GDS system brings advances in speed, simplicity, specificity and sensitivity

### SPEED

**Faster than many conventional thermal cyclers**, the Assurance® GDS Rotor-Gene® is an innovative centrifugal air-exchange thermal cycler that puts a new spin on things.

- Its constant rotary motion overcomes the heat equilibrium issues inherent in conventional Peltier block systems and lowers dwell time, resulting in faster results.
- Save over 2 hours of amplification time per run with the Assurance® GDS cycler.

### SIMPLICITY

**From start to finish Assurance® GDS has been designed to be simple, flexible and easy to run.**

- Requires no centrifuge or heating block.
- Eliminates associated steps and waiting periods.
- Not dependent on frequently ambiguous melt curve analysis after amplification to determine results.

### SPECIFICITY

**Assurance® GDS utilizes patented primers and probes to ensure greater accuracy.**

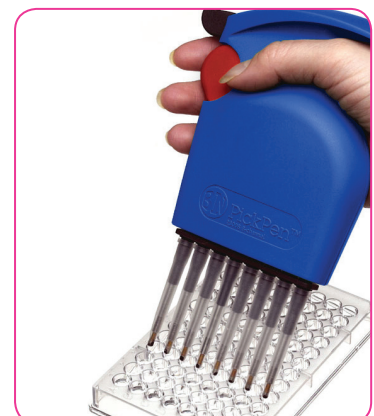
Each amplification tube contains a set of highly specific primers/probes and a discrete internal control which ensure the highest level of specificity.

- Minimizes potential for cross-reactivity with non-target organisms.
- Results in fewer indeterminate or false positive reactions.
- Provides greater confidence in results.

### SENSITIVITY

**Assurance® GDS delivers a greater amount of quality DNA for analysis, ensuring a higher degree of sensitivity.**

- Its innovative patent-pending sample preparation procedure utilizes proprietary magnetic particles to capture and transfer the target organisms from the enriched sample to the amplification tube.
- Concentrated sample makes more DNA available for analysis allowing for a shorter enrichment.







Preparation, Separation,  
Filtration & Monitoring Products

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## System Components

System Components
Assurance® GDS Rotor-Gene®
Laptop computer
Assurance® GDS PickPen®
Vortex mixer
Disposable supplies

## Assurance® GDS Kits

Description	Part No.
<i>Salmonella</i> Tq	71008-100
<i>Salmonella</i> HET Tq	71022-100
<i>Listeria</i> spp. Tq	71009-100
<i>Listeria monocytogenes</i> Tq	71010-100
<i>Cronobacter</i> Tq	71012-100
<i>E. coli</i> O157:H7 Tq	71007-100
MPX Top 7 STEC	71015-100
Top 7 STEC ( <i>eae</i> ) Tq	71017-100
Shiga Toxin Genes (O157) Tq	71005-100
Shiga Toxin Genes (Top 7) Tq	71018-100
Poly IMS - Top STEC	61030-100

To place an order or receive technical assistance in the U.S. and Canada, call toll-free 1-800-245-0113

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